METHOD AND APPARATUS FOR VIDEO DECODING AND DE-INTERLACING

Abstract

An apparatus for video decoding and de-interlacing contains a video decoder for decoding video data to generate decoded video data of a next picture; a storage device coupled to the video decoder, the storage device having four frame buffers for buffering the decoded video data of the next picture into one of the four frame buffers according to data stored in the frame buffers; an interlace/progressive converter coupled to the storage device, for de-interlacing data stored in the frame buffers to generate corresponding progressive video data; and a controller coupled to the video decoder and the interlace/progressive converter, for controlling data access of the video decoder and the interlace/progressive converter to the frame buffers of the storage device.